CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.06/KRIDL/CSR-08/111a/CEMENT/2016-17 Date: 08.08.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Byatarayanapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Executive Engineer,** KRIDL, Bangalore.
*NAME OF THE WORK	:	Improvements to Roads and Drains at Hegadenagara in ward No.06, BBMP, Bangalore.
*REFERENCE	:	BBMP/EE/BTP/WO/95/2016-17 Dated: 05.08.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	05.08.2016
PERIOD OF TESTING	:	05.08.2016 to 08.08.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.06/KRIDL/CSR-08/111a/SAND-Gradation/2016-17 : 08.08.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Executive Engineer,** KRIDL, Bangalore.

*** Name of Work** : Improvements to Roads and Drains at Hegadenagara in ward No.06, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/95/2016-17 Dated: 05.08.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 05.08.2016

Date of Testing : 08.08.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.00	90-100	90-100	90-100	95-100
2.36	77.80	60-95	75-100	85-100	95-100
1.18	59.80	30-70	55-90	75-100	90-100
600 Micron	31.80	15-34	35-59	60-79	80-100
300 Micron	15.80	5-20	8-30	12-40	15-50
150 Micron	4.80	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.06/KRIDL/CSR-08/111a/AGG/GR/2016-17 : 08.08.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Executive Engineer,** KRIDL, Bangalore.

*** Name of Work** : Improvements to Roads and Drains at Hegadenagara in ward No.06, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/95/2016-17 Dated: 05.08.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 05.08.2016

Date of Testing : 08.08.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.86	95-100	85-100
20	36.43	30-70	0-20
10	18.57	10-35	0-5
4.75	3.57	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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AE-06 n/a

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Job No.: CTCE/BBMP/W.No.06/KRIDL/CSR-08/111a/CUBE/2016-17 23.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Executive Engineer,** KRIDL, Bangalore.

*** Name of the work** : Improvements to Roads and Drains at Hegadenagara in ward No.06, BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/95/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 23.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2016	23.08.2016	8.125	329.6	14.65
2	16.08.2016	23.08.2016	8.239	336.5	14.96
3	16.08.2016	23.08.2016	8.322	346.6	15.40

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AE-06 7/9

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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*** Agency** : **Executive Engineer,** KRIDL, Bangalore.

*** Name of the work** : Improvements to Roads and Drains at Hegadenagara in ward No.06, BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/95/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 23.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2016	23.08.2016	8.189	330.3	14.68
2	16.08.2016	23.08.2016	8.269	338.6	15.05
3	16.08.2016	23.08.2016	8.356	349.3	15.52

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*** Reference** : BBMP/EE/BTP/WO/95/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 23.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2016	23.08.2016	8.110	325.6	14.47
2	16.08.2016	23.08.2016	8.293	340.2	15.12
3	16.08.2016	23.08.2016	8.385	356.3	15.84

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Job No.: CTCE/BBMP/W.No.06/KRIDL/CSR-08/111a/CUBE/2016-17 24.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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*** Agency** : **Executive Engineer,** KRIDL, Bangalore.

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*** Reference** : BBMP/EE/BTP/WO/95/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 24.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.08.2016	24.08.2016	8.185	328.6	14.60
2	17.08.2016	24.08.2016	8.299	338.6	15.05
3	17.08.2016	24.08.2016	8.335	358.6	15.94

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*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 24.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.08.2016	24.08.2016	8.105	327.9	14.57
2	17.08.2016	24.08.2016	8.258	339.6	15.09
3	17.08.2016	24.08.2016	8.320	348.6	15.49

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